

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012120\
 Data File : VN059807.D
 Acq On : 21 Jan 2020 13:21
 Operator : JC/MD
 Sample : L1004-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 22 02:45:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	209533	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	313088	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	277892	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	116689	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	109580	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
35) Dibromofluoromethane	7.56	113	94234	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
50) Toluene-d8	10.08	98	367185	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
62) 4-Bromofluorobenzene	12.40	95	123370	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	

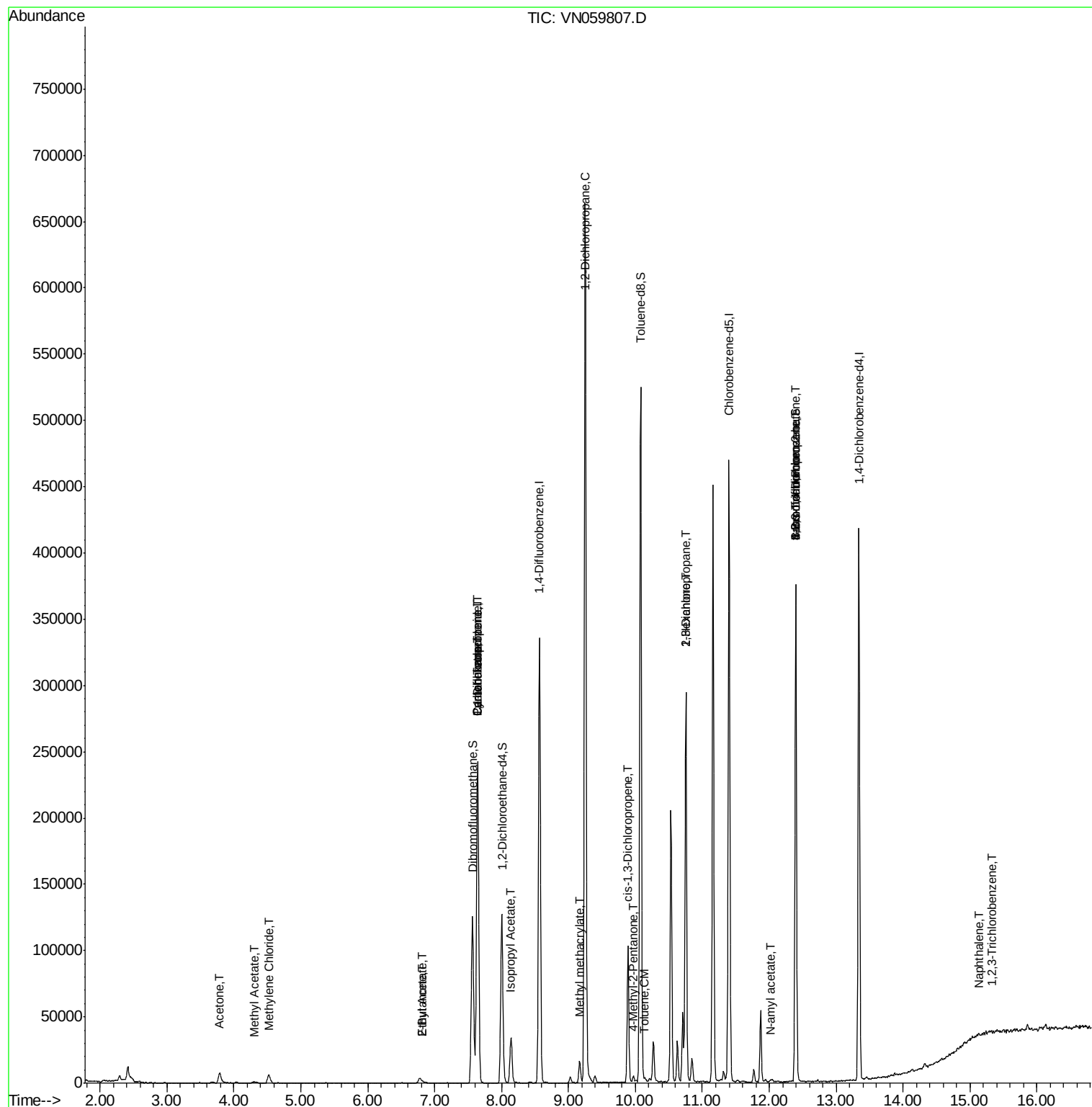
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	13341	7.083	ug/l	99
18) Methyl Acetate	4.30	43	2053	0.755	ug/l #	76
20) Methylene Chloride	4.53	84	5149	1.182	ug/l #	79
25) 2-Butanone	6.81	43	1296	0.984	ug/l #	84
31) Cyclohexane	7.63	56	3907	1.135	ug/l #	13
36) 1,1-Dichloropropene	7.64	75	14165	5.195	ug/l #	50
37) Ethyl Acetate	6.81	43	1296	0.507	ug/l #	69
38) Carbon Tetrachloride	7.64	117	19186	6.469	ug/l #	16
43) Isopropyl Acetate	8.14	43	41777	9.498	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	800	0.398	ug/l #	44
48) Methyl methacrylate	9.16	41	2518	1.280	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3635	1.430	ug/l	91
52) Toluene	10.14	92	1296	0.252	ug/l	81
54) cis-1,3-Dichloropropene	9.89	75	19856	5.909	ug/l #	55
57) 1,3-Dichloropropane	10.75	76	2937	0.909	ug/l #	42
59) 2-Hexanone	10.75	43	40902	21.836	ug/l #	55
71) Bromoform	12.39	173	339	0.201	ug/l #	29
74) N-amyl acetate	12.03	43	1818	0.547	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63431	32.301	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63431	69.366	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.34	75	100	Below Cal	#	6
95) Naphthalene	15.13	128	1823	0.287	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	538	0.247	ug/l	78

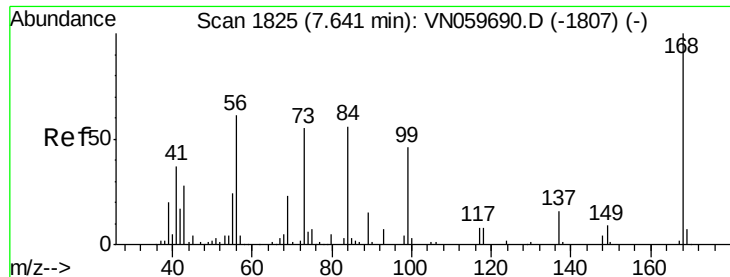
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN012120\
Data File : VN059807.D
Acq On : 21 Jan 2020 13:21
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Sample : L1004-15
Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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Quant Time: Jan 22 02:45:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

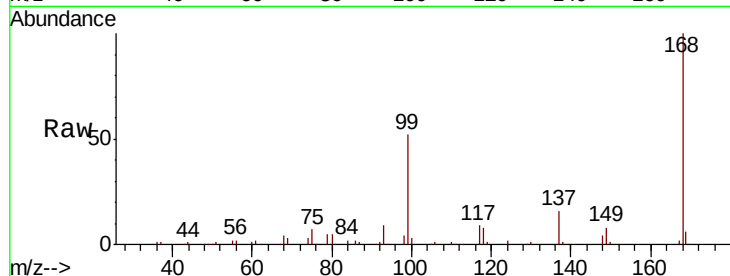
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 209533

Ion Ratio Lower Upper

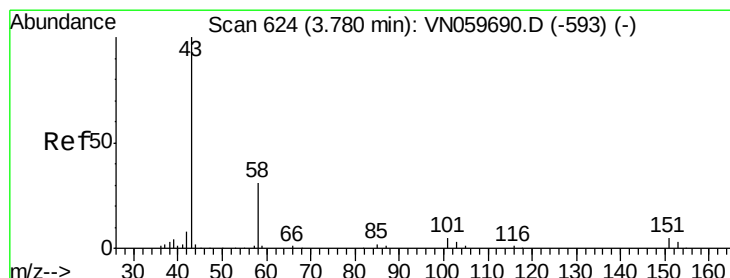
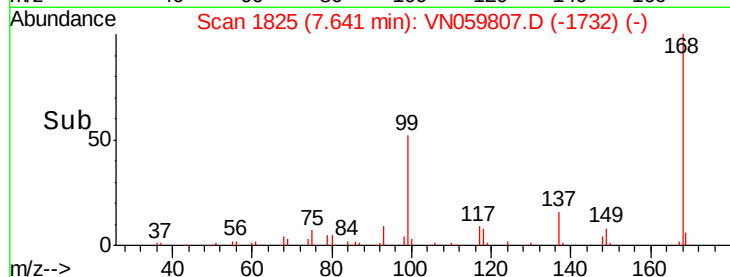
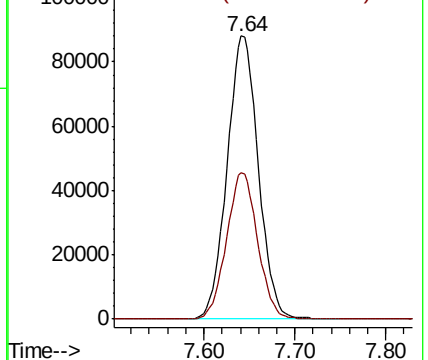
168 100

99 51.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059807.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059807.D (-1732) (-)



#16

Acetone

Concen: 7.083 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059807.D

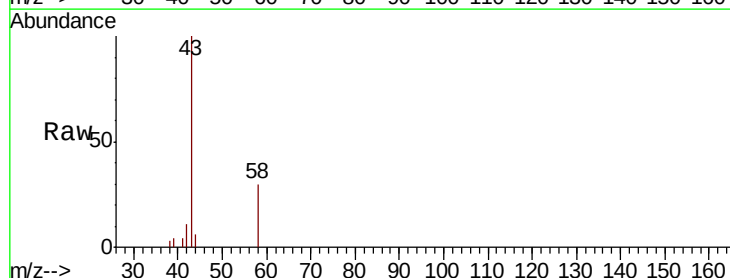
Acq: 21 Jan 2020 13:21

Tgt Ion: 43 Resp: 13341

Ion Ratio Lower Upper

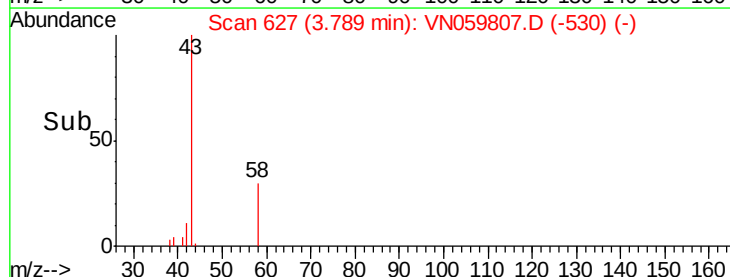
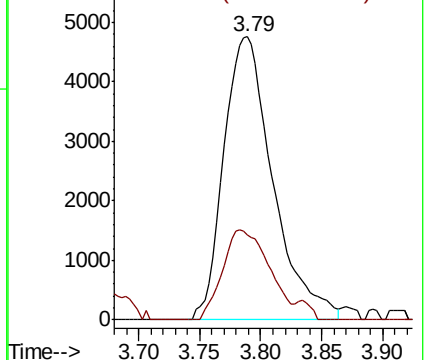
43 100

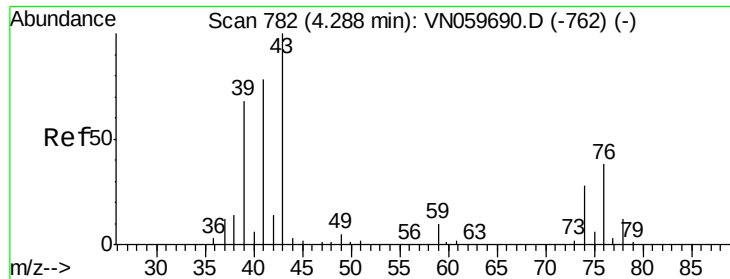
58 29.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059807.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059807.D (-530) (-)

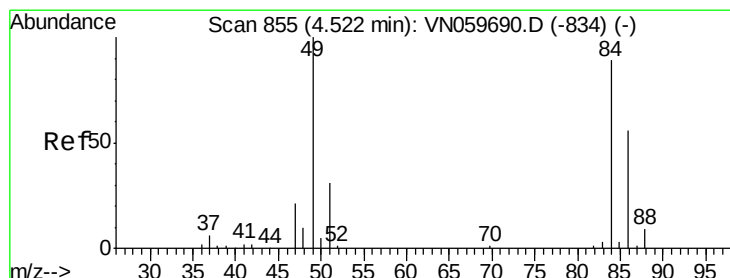
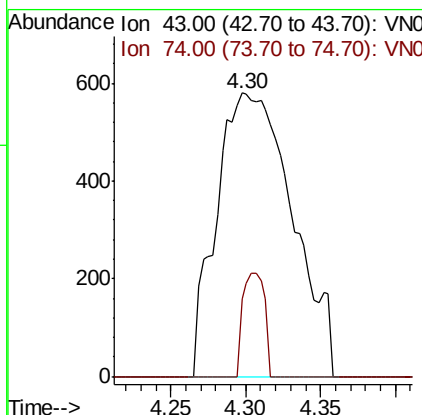
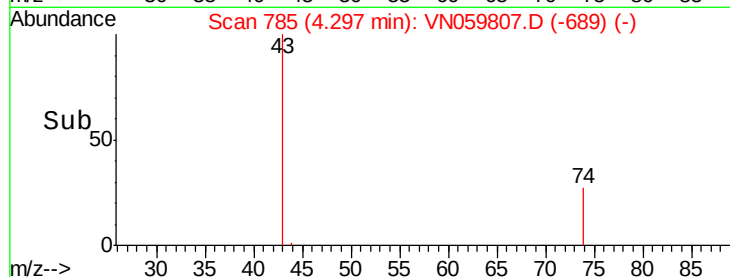
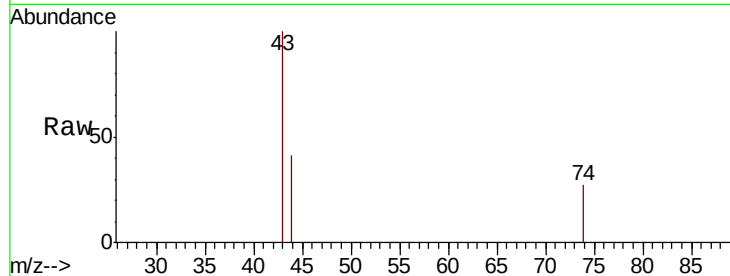




#18
Methyl Acetate
Concen: 0.755 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

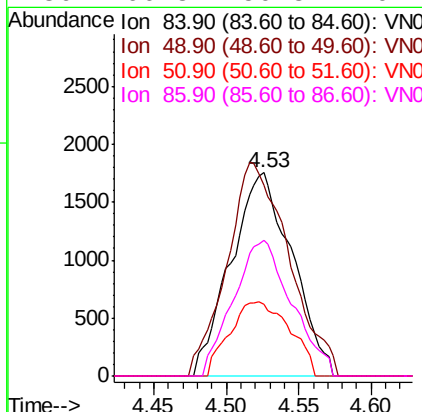
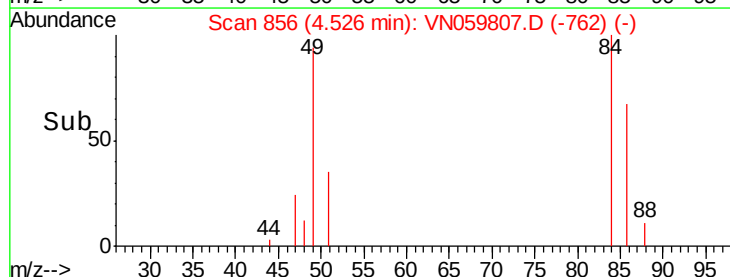
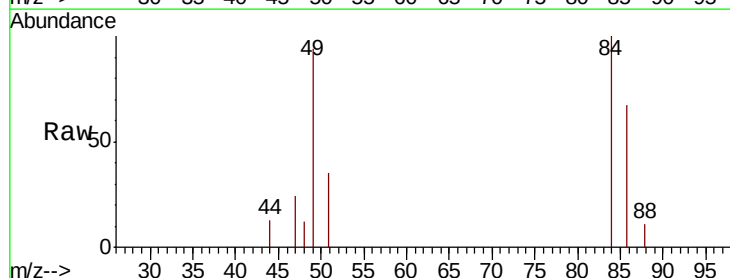
Instrument :
MSVOA_N
ClientSampled :

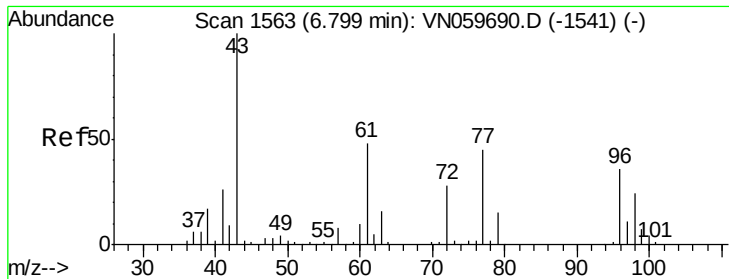
Tot Ion: 43 Resp: 2053
Ion Ratio Lower Upper
43 100
74 10.6 17.5 26.3#



#20
Methylene Chloride
Concen: 1.182 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

Tgt Ion: 84 Resp: 5149
Ion Ratio Lower Upper
84 100
49 93.7 106.6 160.0#
51 35.3 31.9 47.9
86 66.8 50.8 76.2





#25

2-Butanone

Concen: 0.984 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

Instrument :

MSVOA_N

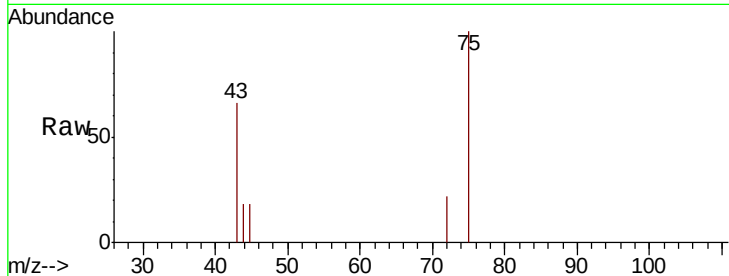
ClientSampleId :

Tot Ion: 43 Resp: 1296

Ion Ratio Lower Upper

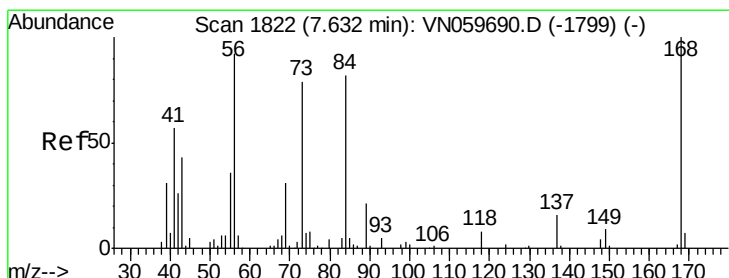
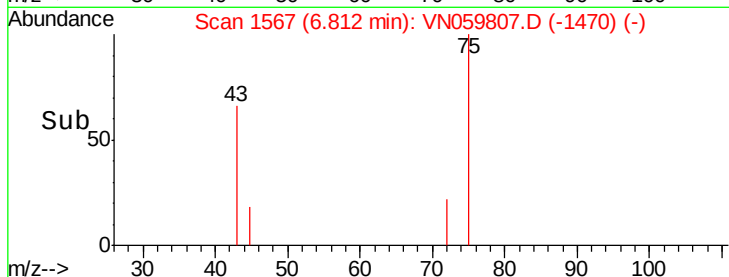
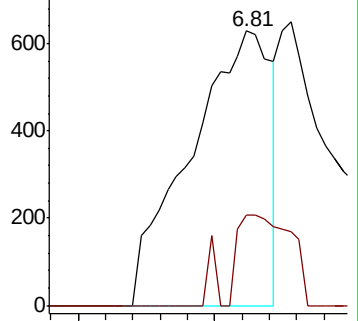
43 100

72 32.8 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 1.135 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

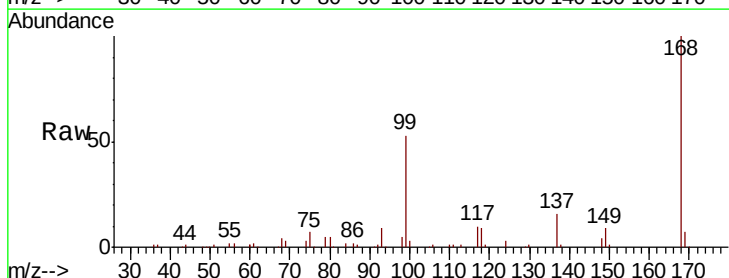
Tgt Ion: 56 Resp: 3907

Ion Ratio Lower Upper

56 100

69 169.5 26.5 39.7#

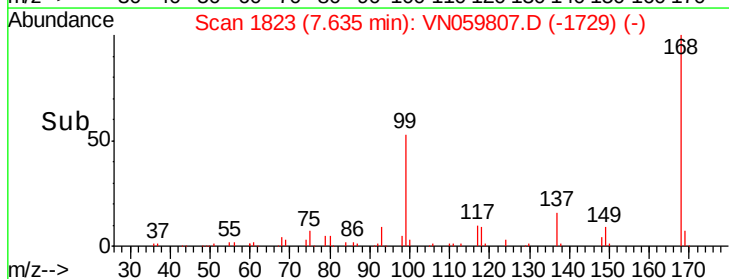
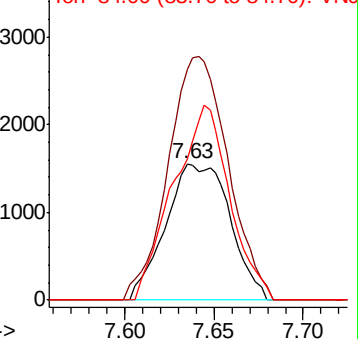
84 104.1 65.3 97.9#

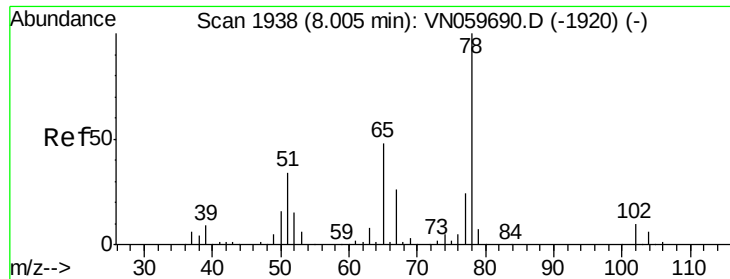


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

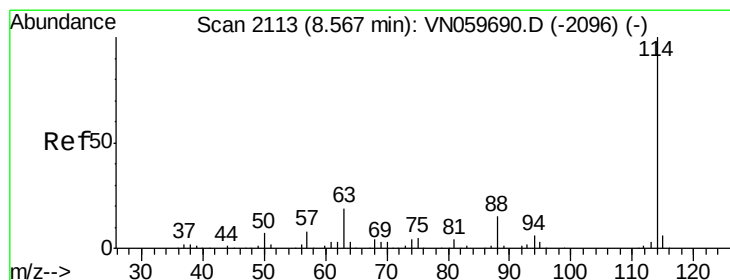
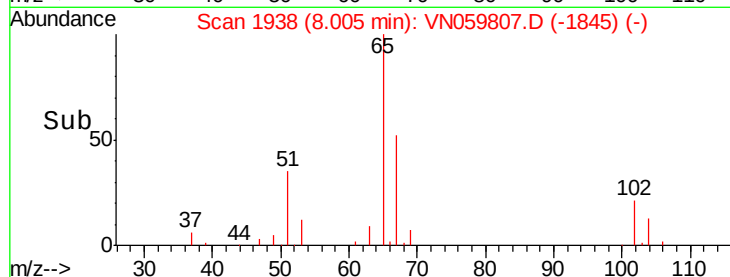
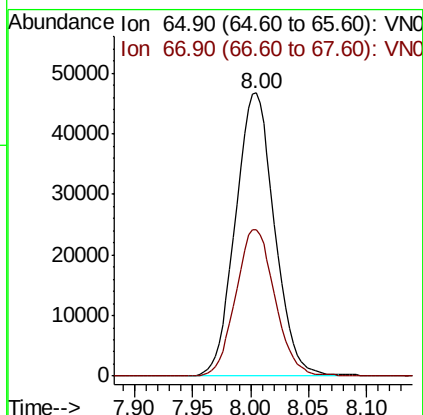
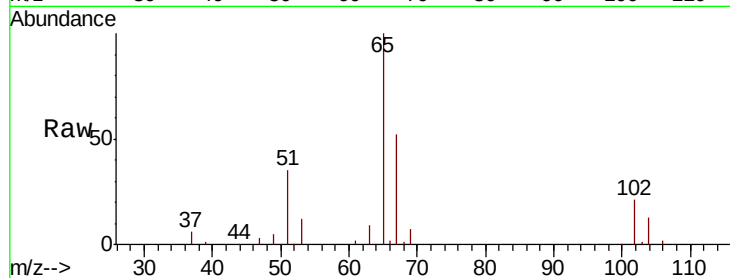




#33
 1,2-Dichloroethane-d4
 Concen: 47.092 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059807.D
 Acq: 21 Jan 2020 13:21

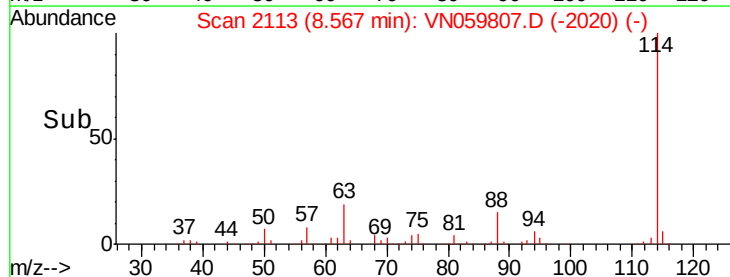
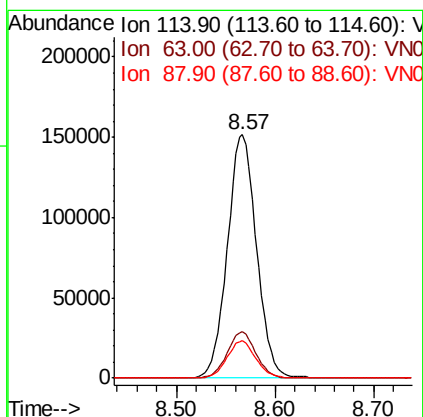
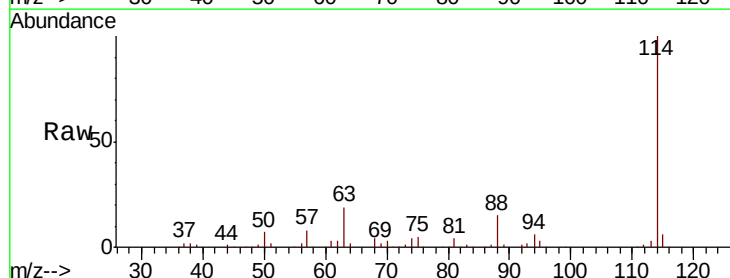
Instrument :
 MSVOA_N
 ClientSampleId :

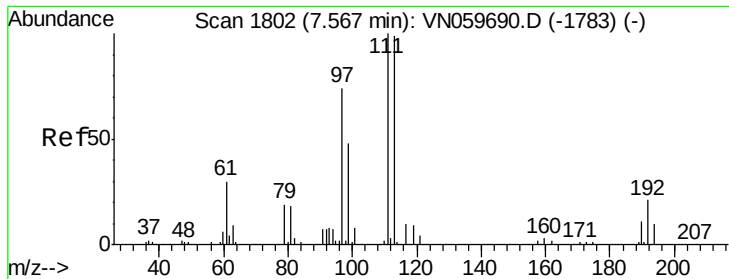
Tot Ion: 65 Resp: 109580
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059807.D
 Acq: 21 Jan 2020 13:21

Tgt Ion: 114 Resp: 313088
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 43.6
 88 15.3 0.0 31.4

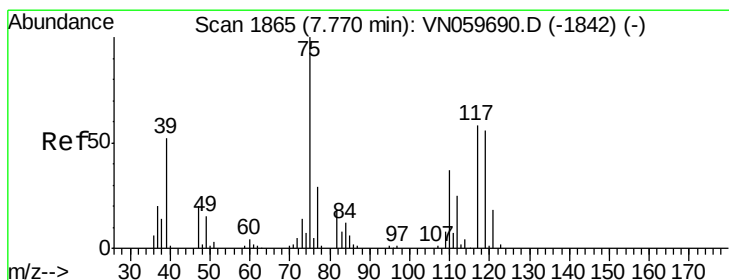
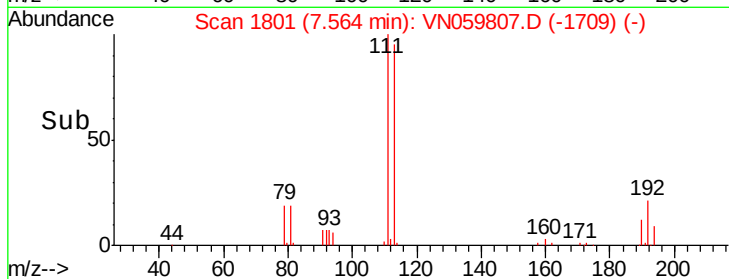
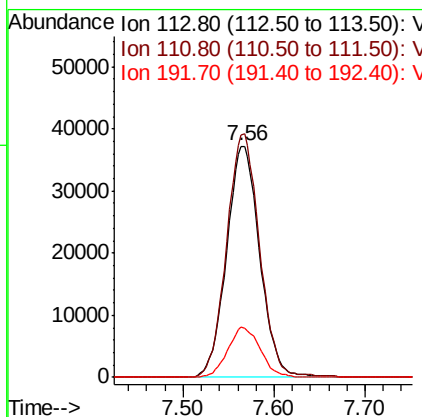
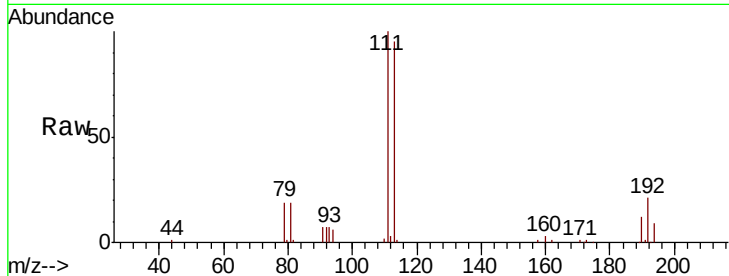




#35
 Dibromofluoromethane
 Concen: 50.471 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059807.D
 Acq: 21 Jan 2020 13:21

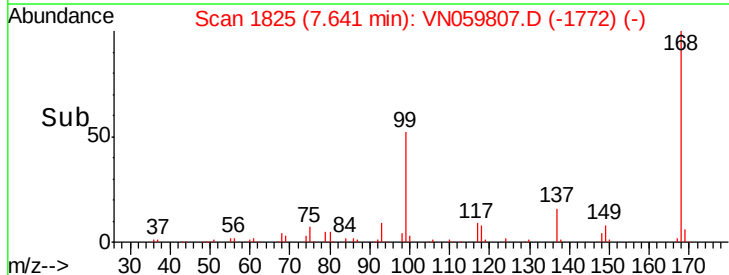
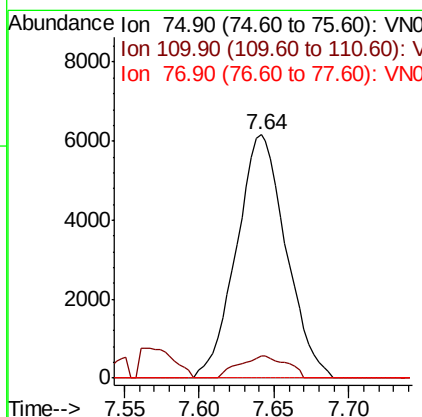
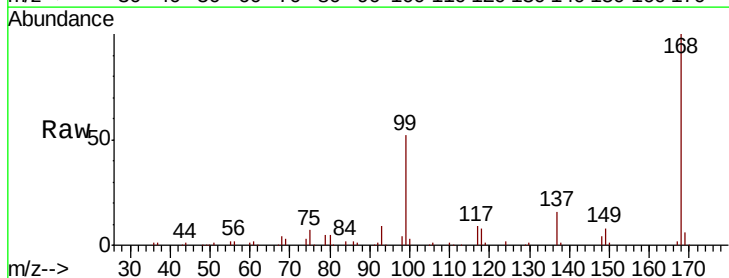
Instrument :
 MSVOA_N
 ClientSampled :

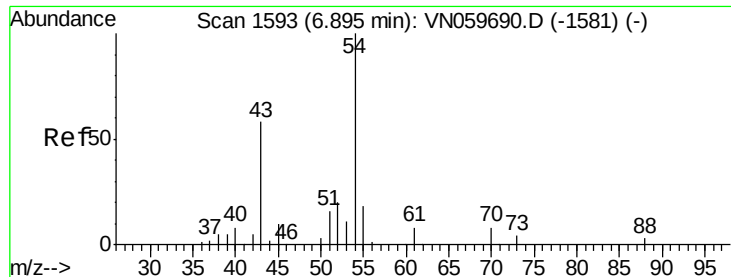
Tot Ion:113 Resp: 94234
 Ion Ratio Lower Upper
 113 100
 111 104.7 83.5 125.3
 192 21.3 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.195 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059807.D
 Acq: 21 Jan 2020 13:21

Tgt Ion: 75 Resp: 14165
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.6 49.7#
 77 0.0 25.1 37.7#

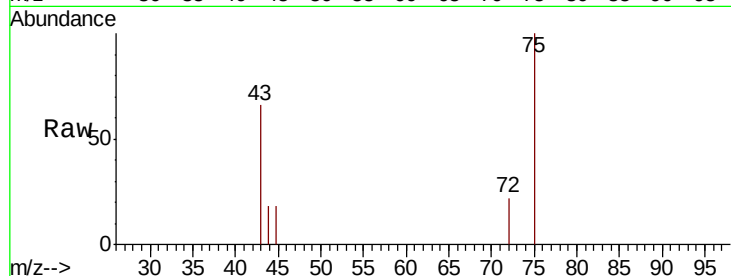




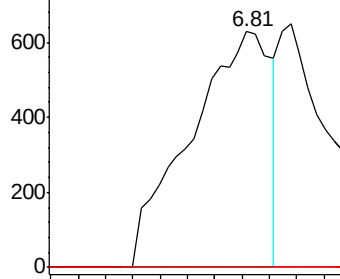
#37
Ethyl Acetate
Concen: 0.507 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.08 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

Instrument :
MSVOA_N
ClientSampled :

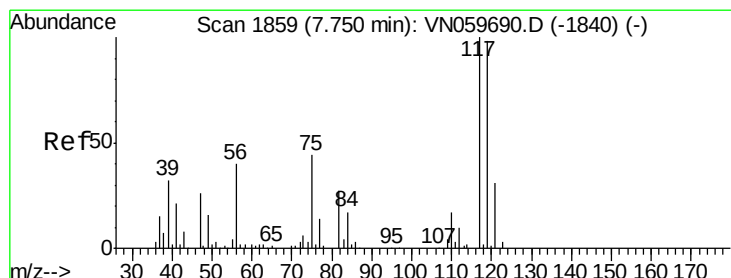
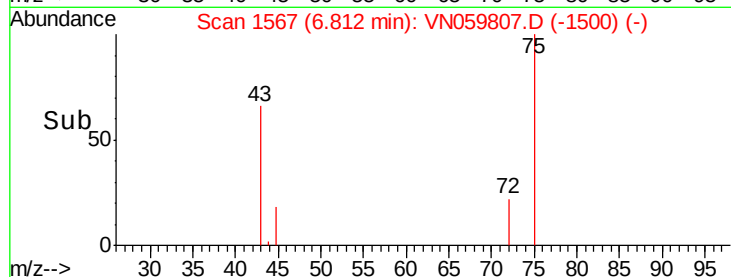
Tot Ion: 43 Resp: 1296
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

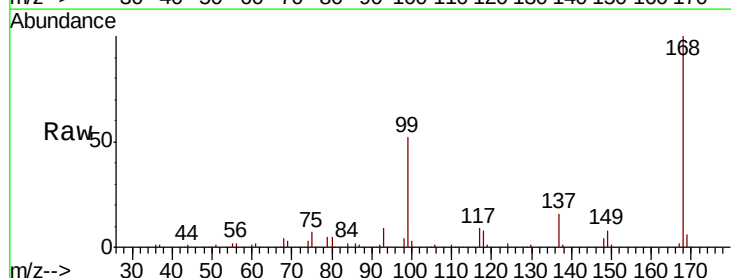


Time-->

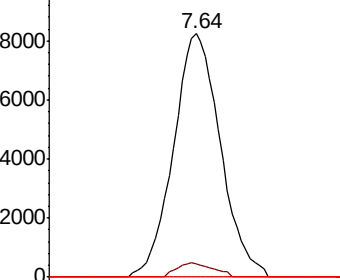


#38
Carbon Tetrachloride
Concen: 6.469 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

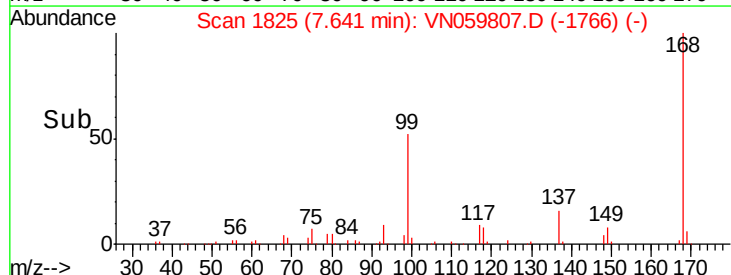
Tgt Ion: 117 Resp: 19186
Ion Ratio Lower Upper
117 100
119 5.6 76.5 114.7#
121 0.0 25.1 37.7#

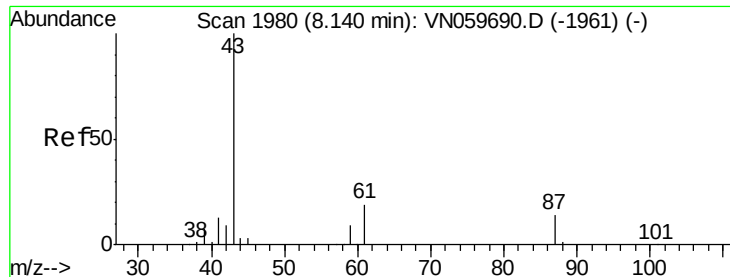


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



Time-->





#43

Isopropyl Acetate

Concen: 9.498 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

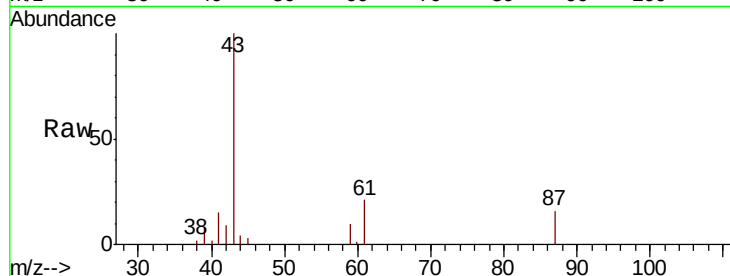
Tot Ion: 43 Resp: 41777

Ion Ratio Lower Upper

43 100

61 20.5 20.2 30.2

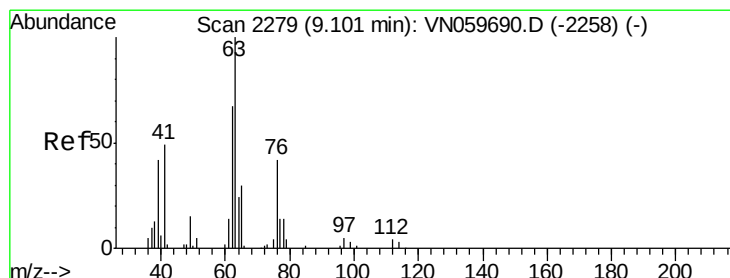
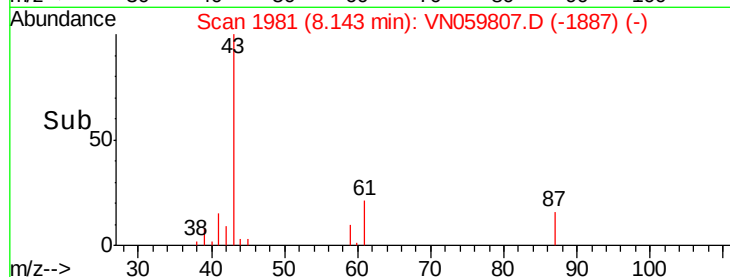
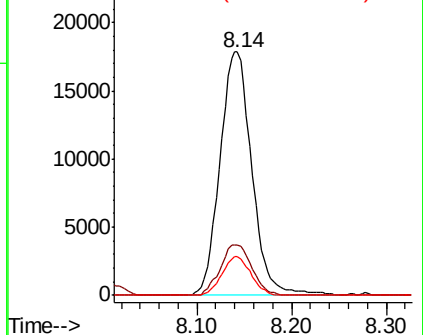
87 14.3 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059807.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN059807.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN059807.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.398 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059807.D

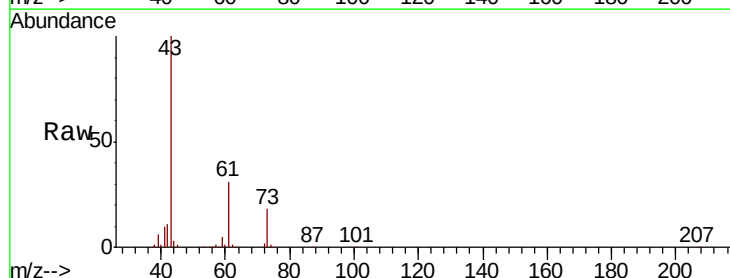
Acq: 21 Jan 2020 13:21

Tgt Ion: 63 Resp: 800

Ion Ratio Lower Upper

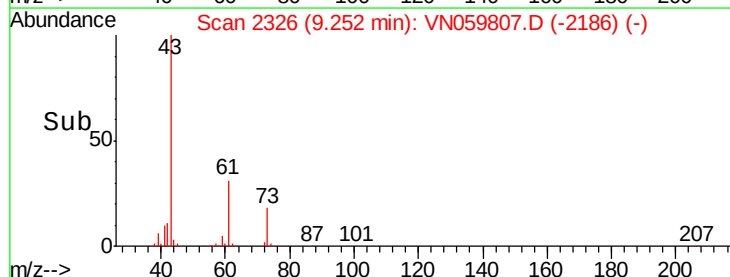
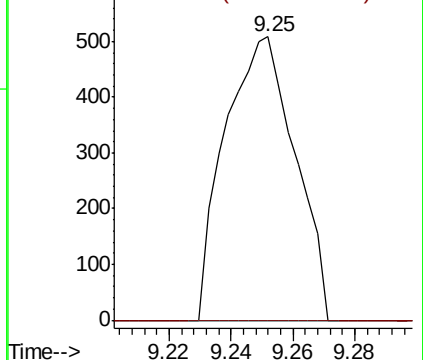
63 100

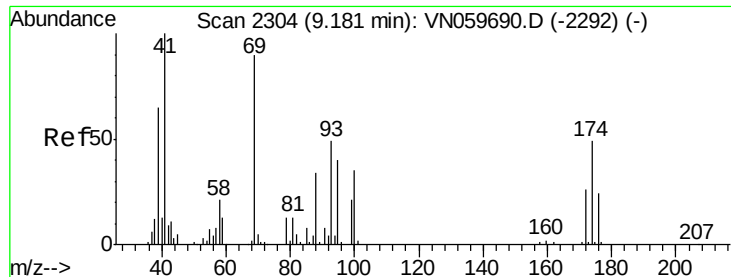
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059807.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059807.D (-2186) (-)

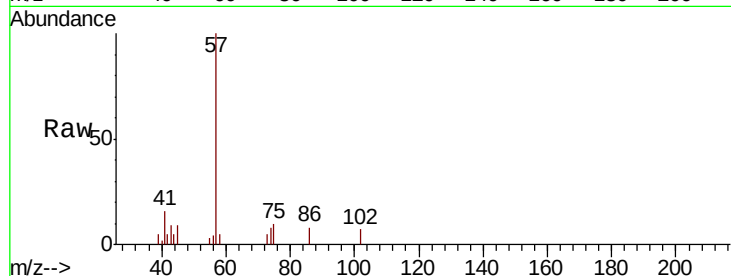




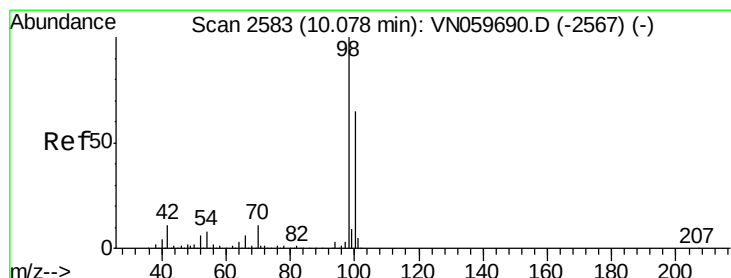
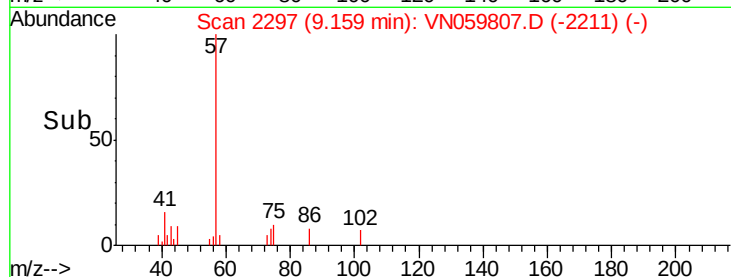
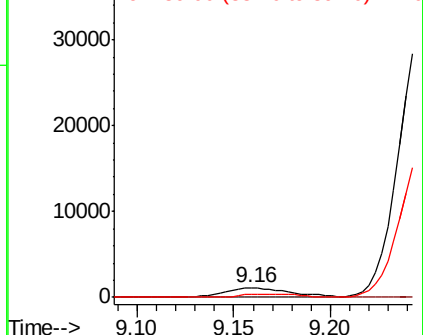
#48
Methvl methacrylate
Concen: 1.280 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2518
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

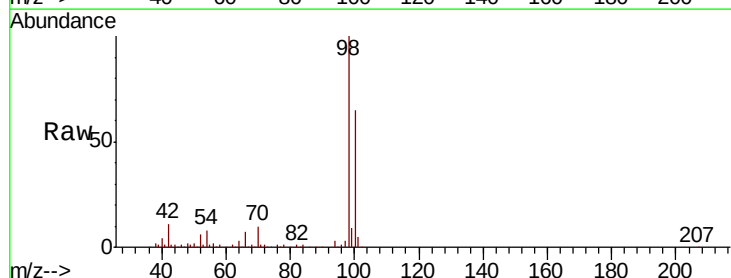


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

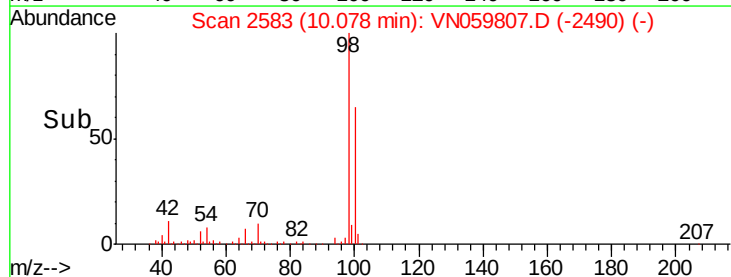
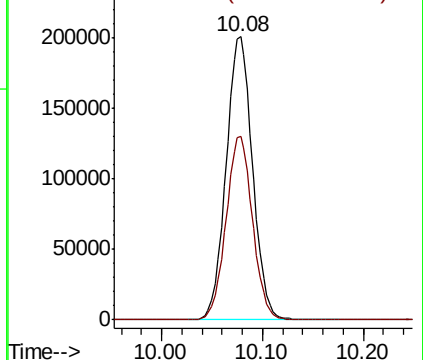


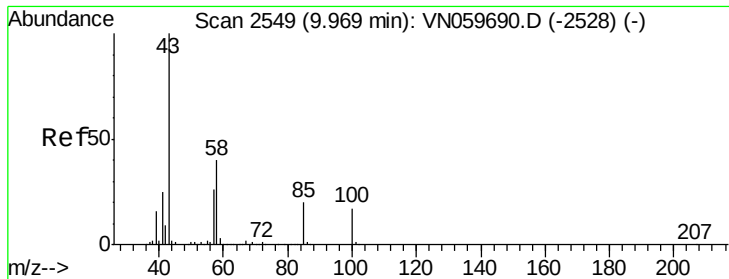
#50
Toluene-d8
Concen: 50.758 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

Tgt Ion: 98 Resp: 367185
Ion Ratio Lower Upper
98 100
100 65.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.430 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

Instrument :

MSVOA_N

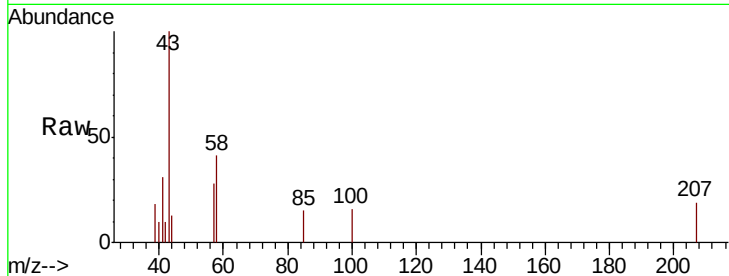
ClientSampled :

Tot Ion: 43 Resp: 3635

Ion Ratio Lower Upper

43 100

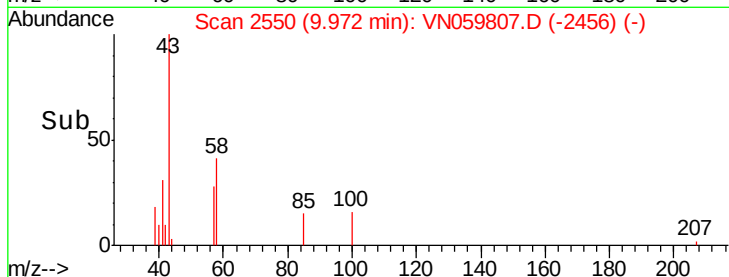
58 32.1 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-2528) (-)

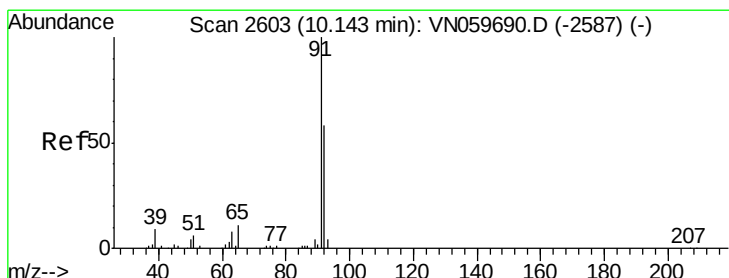
Time-->



Abundance Ion 43.00 (42.70 to 43.70): VN059807.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN059807.D (-2456) (-)

Time-->



#52

Toluene

Concen: 0.252 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN059807.D

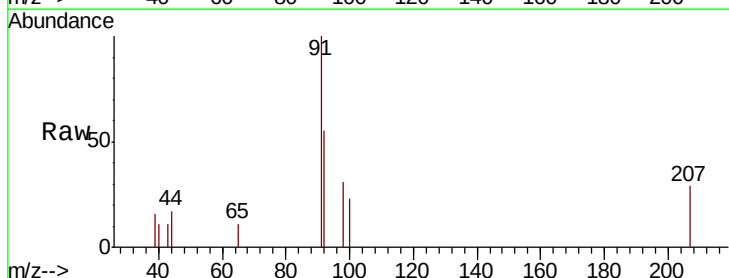
Acq: 21 Jan 2020 13:21

Tgt Ion: 92 Resp: 1296

Ion Ratio Lower Upper

92 100

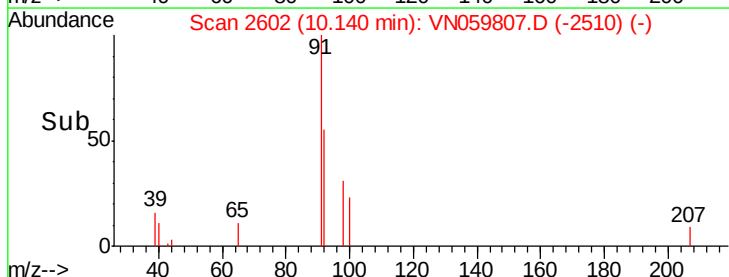
91 201.9 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN059690.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN059690.D (-2587) (-)

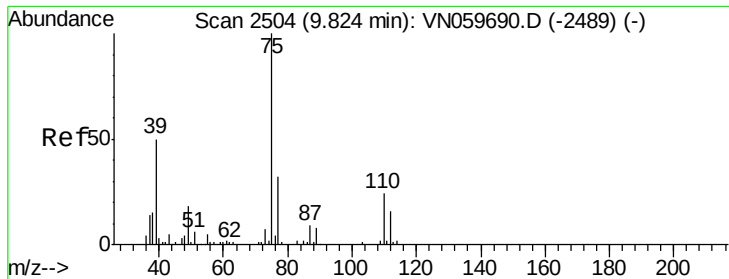
Time-->



Abundance Ion 92.00 (91.70 to 92.70): VN059807.D (-2456) (-)

Ion 91.00 (90.70 to 91.70): VN059807.D (-2456) (-)

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.909 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

Instrument :

MSVOA_N

ClientSampleId :

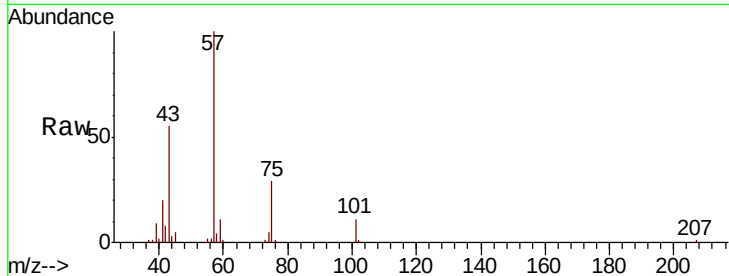
Tot Ion: 75 Resp: 19856

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

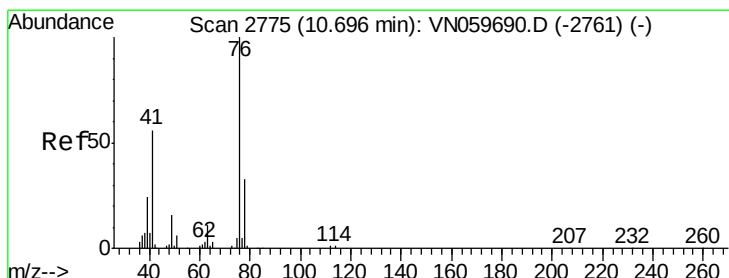
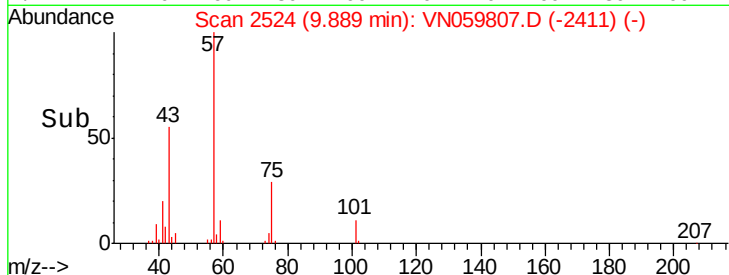
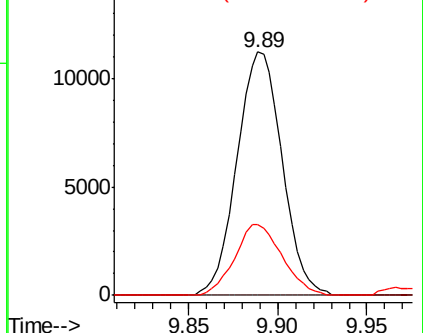
39 29.2 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.909 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059807.D

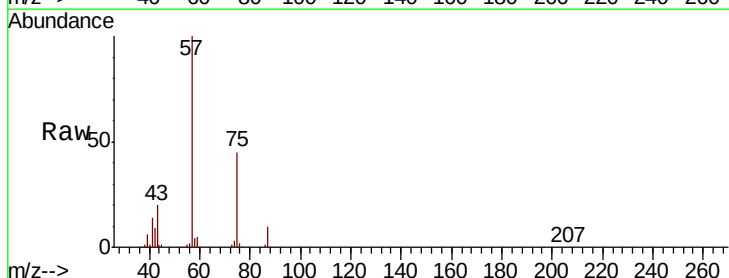
Acq: 21 Jan 2020 13:21

Tgt Ion: 76 Resp: 2937

Ion Ratio Lower Upper

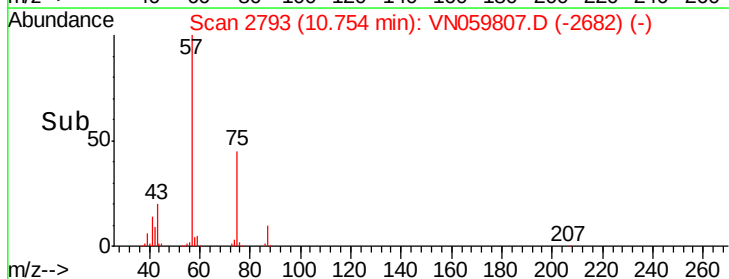
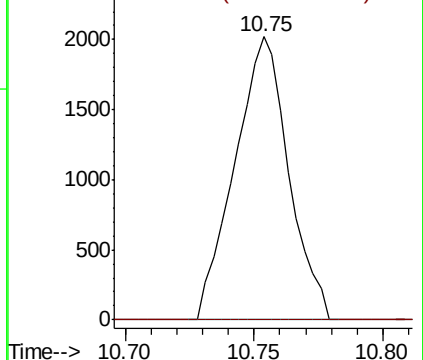
76 100

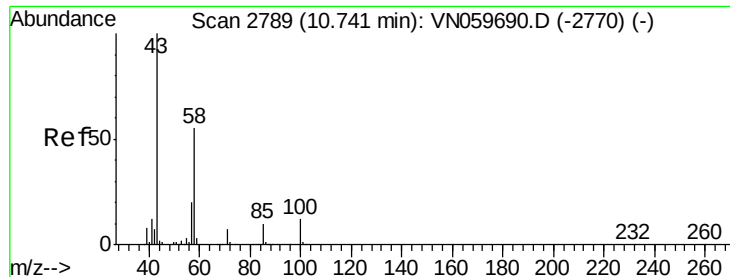
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

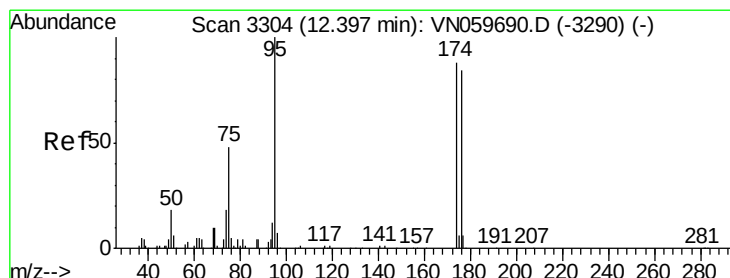
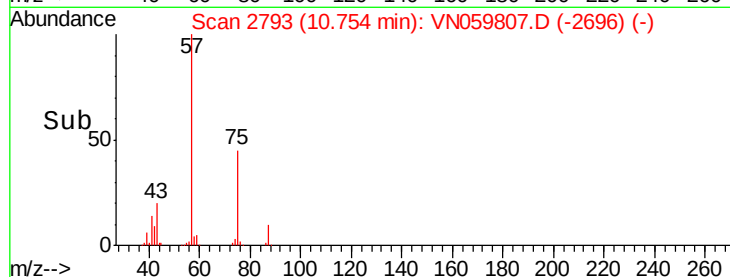
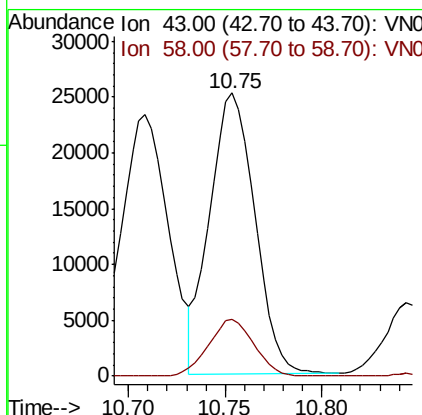
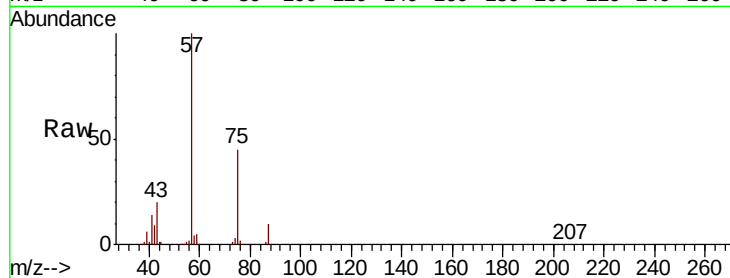




#59
2-Hexanone
Concen: 21.836 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

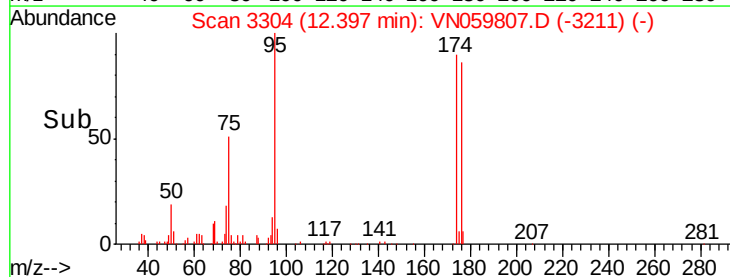
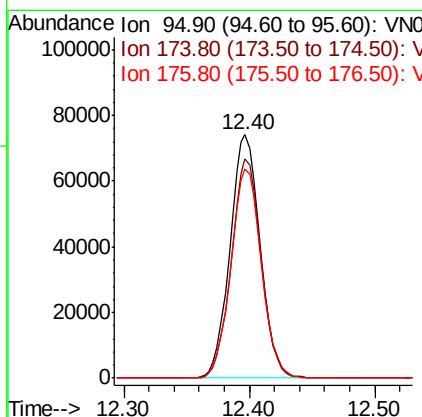
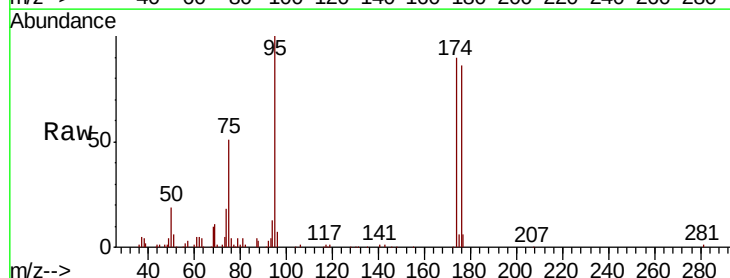
Instrument :
MSVOA_N
ClientSampled :

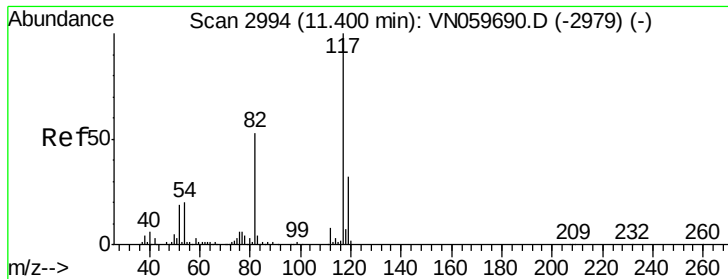
Tot Ion: 43 Resp: 40902
Ion Ratio Lower Upper
43 100
58 20.3 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.307 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

Tgt Ion: 95 Resp: 123370
Ion Ratio Lower Upper
95 100
174 89.1 0.0 151.4
176 86.5 0.0 146.0

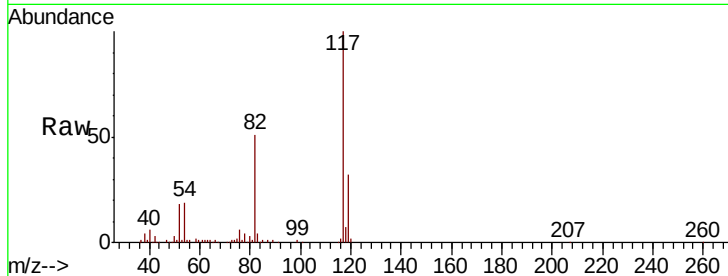




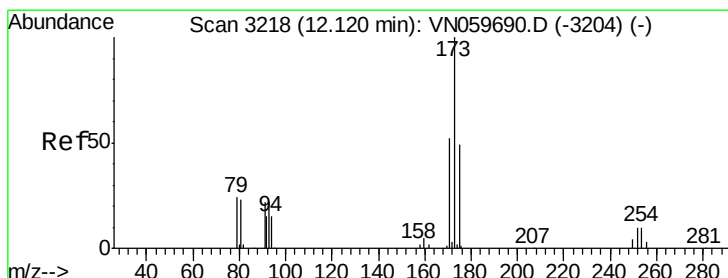
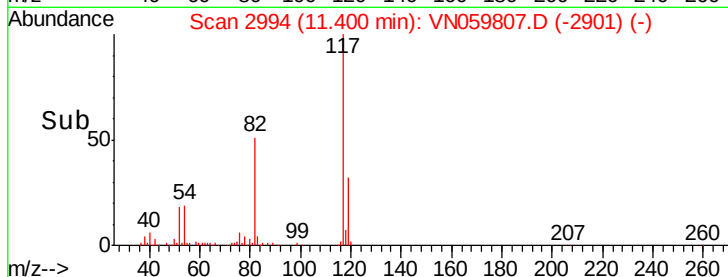
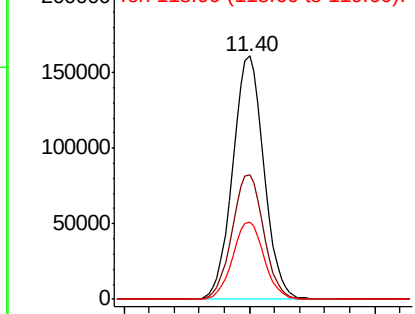
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 277892
Ion Ratio Lower Upper
117 100
82 51.2 45.9 68.9
119 31.9 25.5 38.3

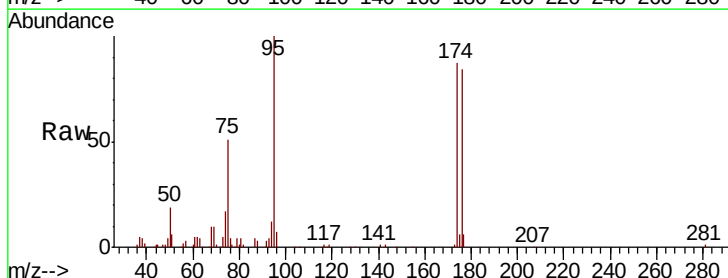


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

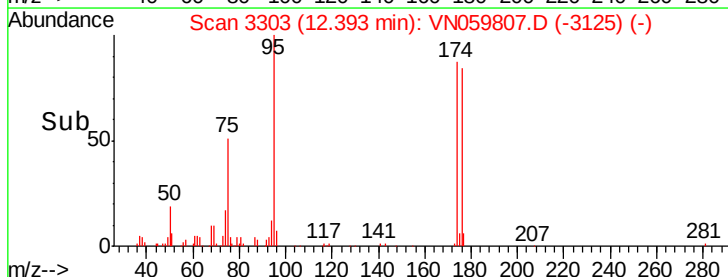
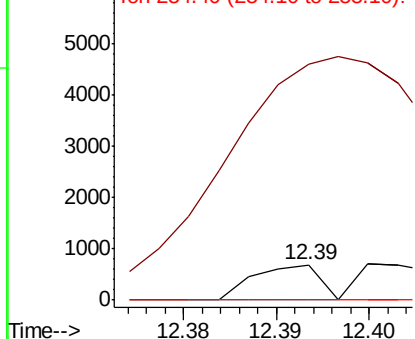


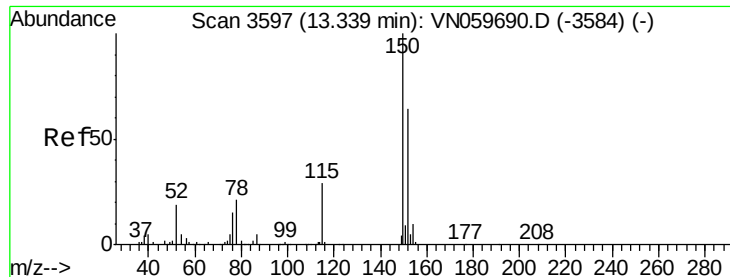
#71
Bromoform
Concen: 0.201 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN059807.D
Acq: 21 Jan 2020 13:21

Tgt Ion:173 Resp: 339
Ion Ratio Lower Upper
173 100
175 0.0 23.8 71.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

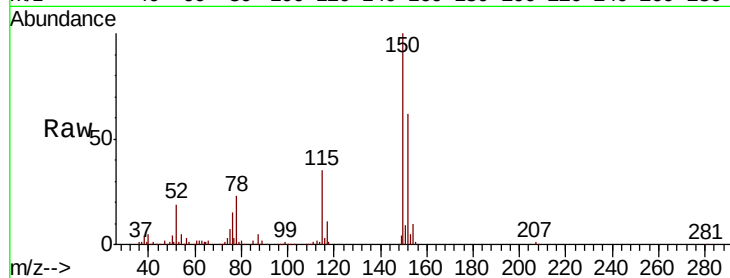
Tot Ion:152 Resp: 116689

Ion Ratio Lower Upper

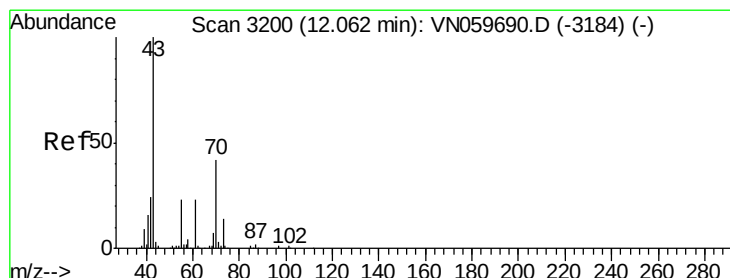
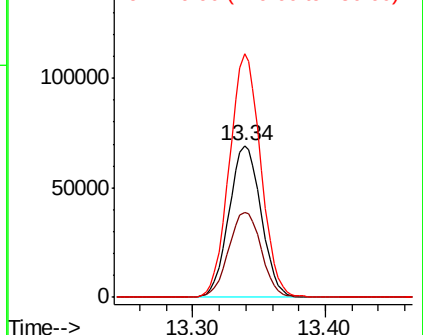
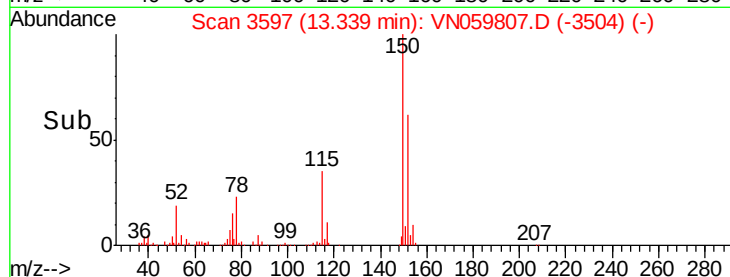
152 100

115 57.2 30.3 90.9

150 156.8 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.547 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

Tgt Ion: 43 Resp: 1818

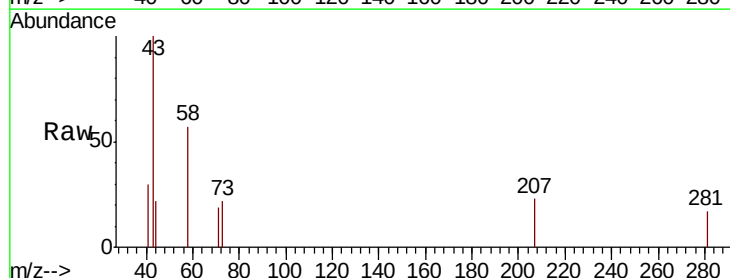
Ion Ratio Lower Upper

43 100

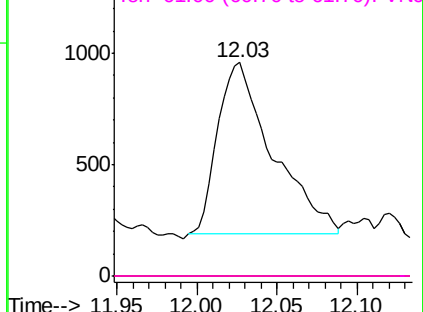
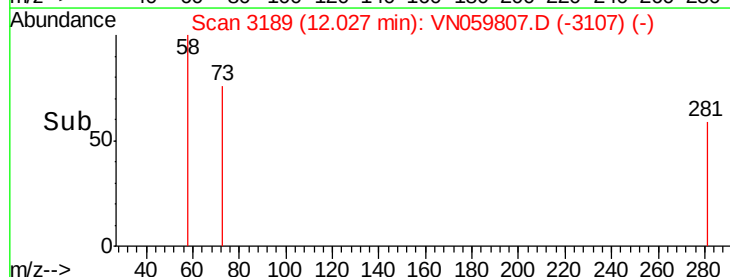
70 0.0 31.3 46.9#

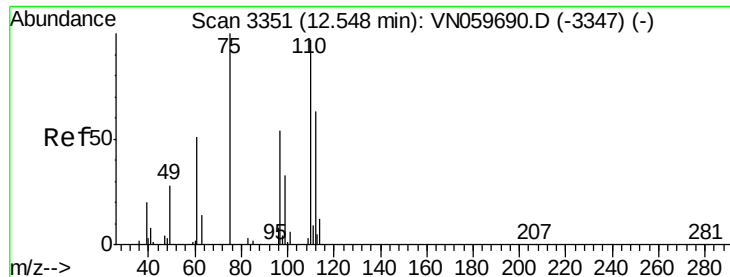
55 0.0 19.8 29.6#

61 0.0 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.301 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

Instrument :

MSVOA_N

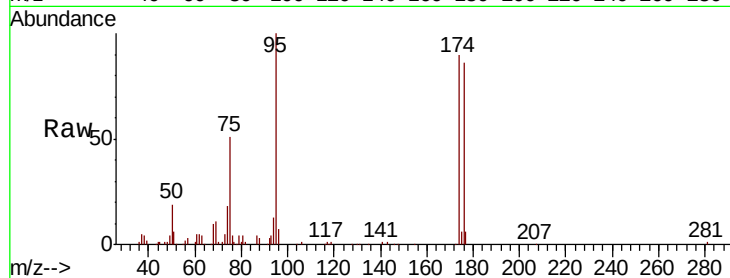
ClientSampleId :

Tot Ion: 75 Resp: 63431

Ion Ratio Lower Upper

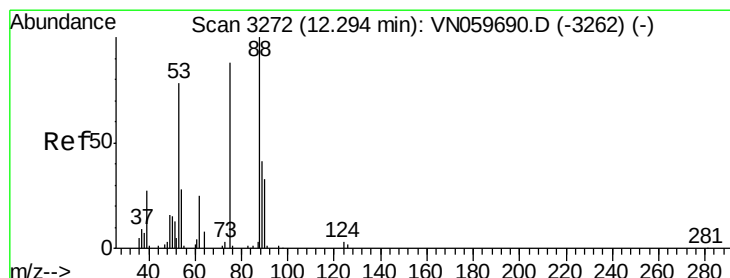
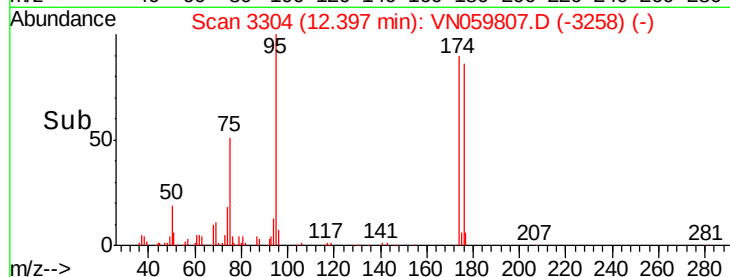
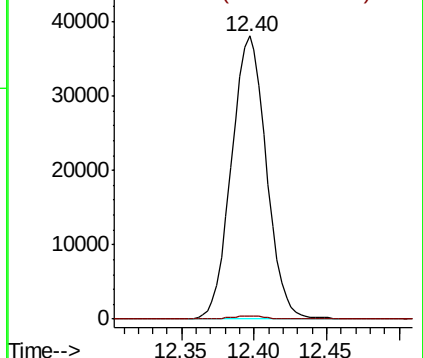
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 69.366 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059807.D

Acq: 21 Jan 2020 13:21

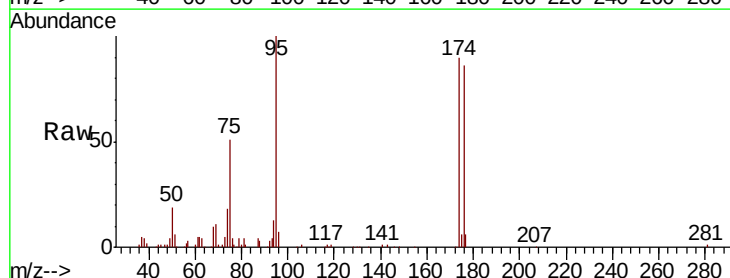
Tgt Ion: 75 Resp: 63431

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

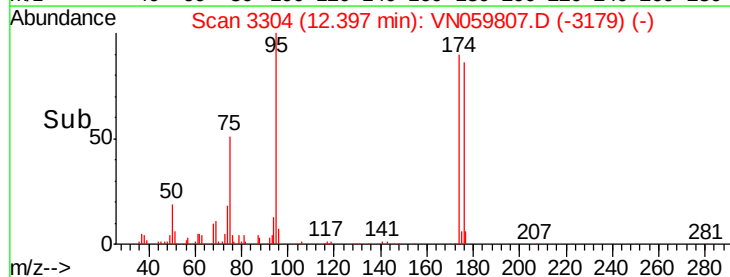
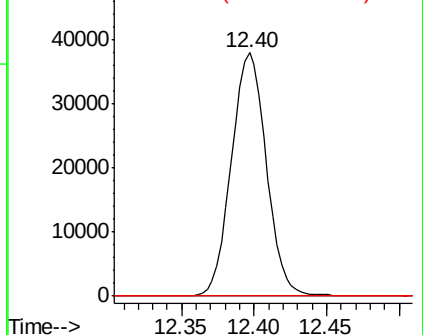
89 0.0 35.4 53.2#

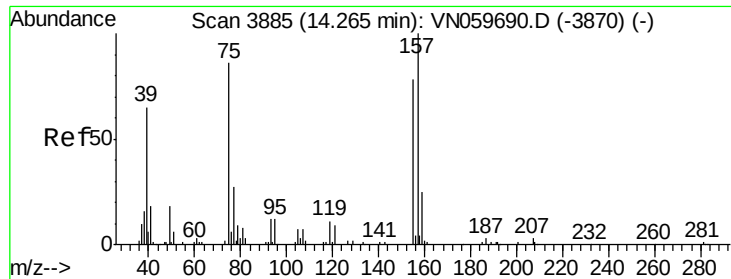


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

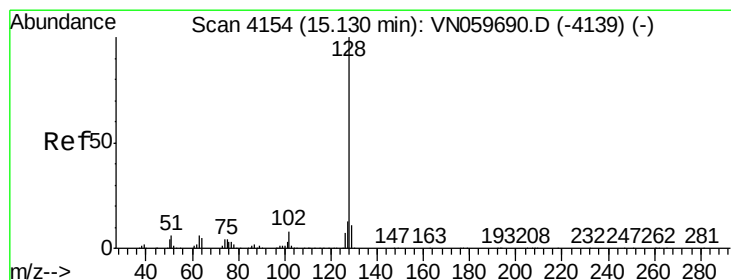
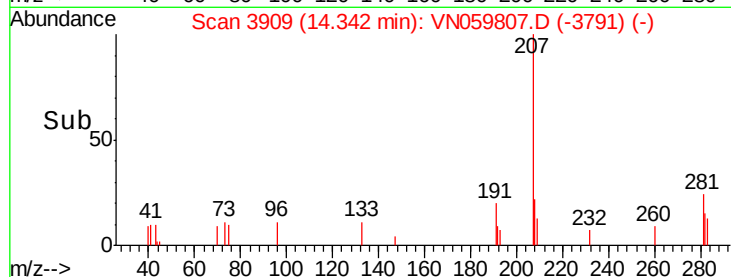
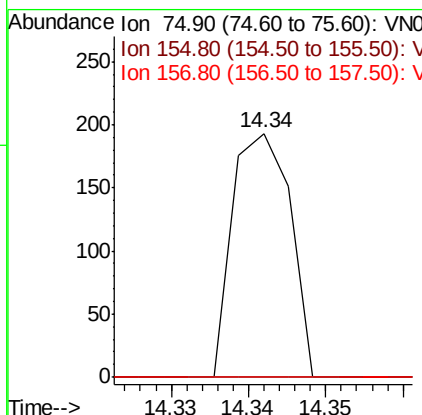
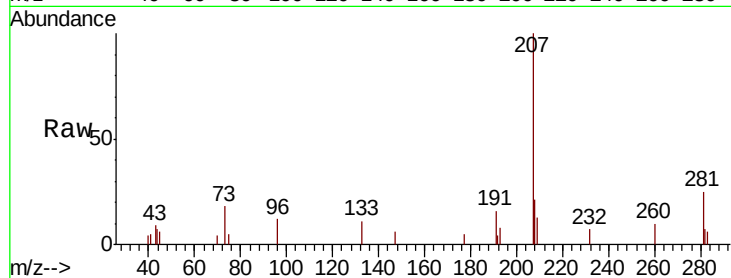




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.34 min Scan# 3909
 Delta R.T. 0.08 min
 Lab File: VN059807.D
 Acq: 21 Jan 2020 13:21

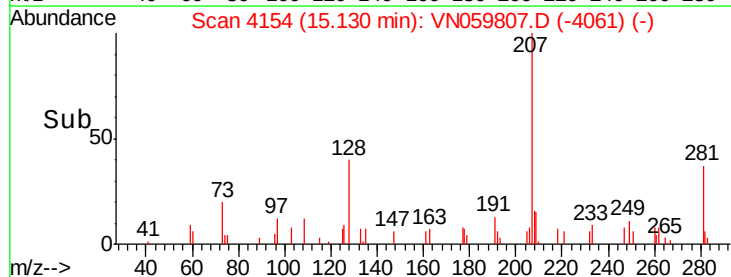
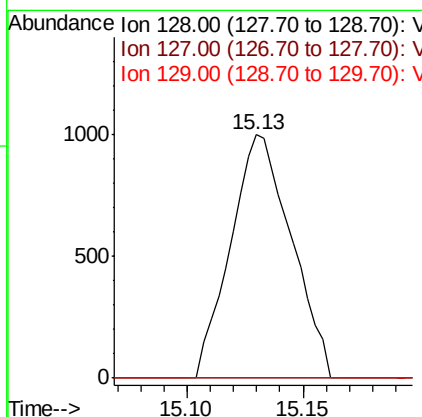
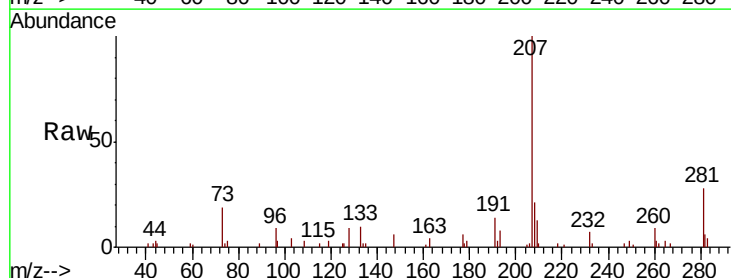
Instrument :
 MSVOA_N
 ClientSampled :

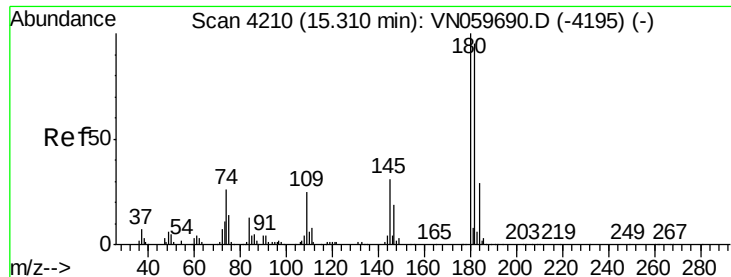
Tot Ion: 75 Resp: 100
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#95
 Naphthalene
 Concen: 0.287 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059807.D
 Acq: 21 Jan 2020 13:21

Tgt Ion: 128 Resp: 1823
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.247 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.01 min
 Lab File: VN059807.D
 Acq: 21 Jan 2020 13:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	69.5	47.4	142.3
145	26.4	16.3	48.9

